

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 12/30/2008

Time Report Requested: 09:38:54

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

F1_R2

C Number: C99017

Lock Date: 07/24/2006

Cage Range: ALL

Date Range: ALL

Reasons For Removal: ALL

Removal Date Range: ALL

Treatment Groups: Include ALL

Study Gender: Both

TDMSE Version: 2.1.0

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Lab: BNW

ALIMENTARY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

.. Lesion present
 Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

1) Minimal 3) Moderate
2) Mild 4) Marked

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GENITAL SYSTEM

HEMATOPOIETIC SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 Lesion qualified as

14. Eosinophils qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

**males
(cont...)**

Skin
Sebaceous Gland. Hyperplasia

MUSCULOSKELETAL SYSTEM

NERVOUS SYSTEM

RESPIRATORY SYSTEM

Larynx + X
 Foreign Body X
 Inflammation, Suppurative 1
 Inflammation, Chronic

Lung
Edema
Hemorrhage
Inflammation, Chronic
Alveolar Epithelium, Hyperplasia

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

SPECIAL SENSES SYSTEM

Eye

Cornea, Fibrosis

+ + + + + + + + + + + + + + + + A + + + + + + + + + + + +

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+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M Missing tissue

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Lab: BNW

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------|-------|-------|-------|-------|
| | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 6 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | 2 | 2 | 3 | 2 | 2 | 6 | 2 | 4 | 4 | 5 | 3 | 3 | 2 | 3 | 2 | 5 | 2 | 9 | 2 | 4 | 3 | 2 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 3 |
| | 9 | 3 | 0 | 3 | 9 | 0 | 9 | 0 | 7 | 6 | 0 | 0 | 9 | 0 | 9 | 7 | 9 | 5 | 9 | 7 | 0 | 9 | 9 | 0 | 9 | 9 | 0 | 9 | 9 | 0 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| CONTROL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | males
(cont...) | 4 | 5 | | |

Lens, Cataract

Retina, Atrophy

Sclera, Metaplasia, Osseous

Sclera, Mineralization

Harderian Gland

Inflammation, Chronic

Zymbal's Gland

URINARY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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* ... Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

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CARDIOVASCULAR SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

| Insufficient tissue

M .. Missing tissue

1-4 .. Lesion qualified as:

+ .. Lesion qualified as:

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2) Mild 4) Marked

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Lab: BNW

GENERAL BODY SYSTEM

NONE

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

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2) Mild 4) Marked

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Lab: BNW

| | DAY ON TEST | | | | | | | | | | | | | | | | | |
|------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 5 | 7 | 5 | 6 | 6 | 7 | 6 | 6 | 6 | 7 | 7 | 6 | 6 | 7 | 7 | 7 | 5 | 7 |
| | 8 | 3 | 6 | 2 | 0 | 3 | 4 | 6 | 2 | 5 | 3 | 3 | 7 | 4 | 1 | 3 | 3 | 4 |
| | 5 | 0 | 2 | 1 | 5 | 0 | 6 | 7 | 5 | 1 | 0 | 0 | 5 | 2 | 0 | 0 | 9 | 9 |
| <hr/> | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| CONTROL | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 |

GENITAL SYSTEM

HEMATOPOIETIC SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 Lesion qualified as:

+ .. Lesion qualified as:

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Lab: BNW

INTEGUMENTARY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x ... Lesion present

.. Lesion present
 Insufficient tissue

M.. Missing tissue

A - Autolysis precludes evaluation

BLANK Not examined microscopically

1-4 .. Lesion qualified as:

1-4: Lesion qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

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MUSCULOSKELETAL SYSTEM

NERVOUS SYSTEM

RESPIRATORY SYSTEM

* ... Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

.. Lessen qualified as:

2) Mild 4) Marked

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Lab: BNW

SPECIAL SENSES SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

X .. Eosin present
I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK - Not examined microscopically

1-4 .. Lesion qualified as:

1-4: Lesion qualified as:

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2) Mild 4) Marked

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Lab: BNW

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|---|---|---|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| | | 5 | 7 | 5 | 6 | 6 | 7 | 6 | 6 | 6 | 7 | 7 | 6 | 6 | 7 | 7 | 7 | 5 | 7 | 7 | 5 | 7 | 7 | | | |
| | | 8 | 3 | 6 | 2 | 0 | 3 | 4 | 6 | 2 | 5 | 3 | 3 | 7 | 4 | 1 | 3 | 3 | 4 | 2 | 3 | 2 | 0 | 2 | 3 | 2 |
| | | 5 | 0 | 2 | 1 | 5 | 0 | 6 | 7 | 5 | 1 | 0 | 0 | 5 | 2 | 0 | 0 | 0 | 9 | 9 | 0 | 9 | 5 | 9 | 0 | 9 |
| FISCHER 344 RATS MALE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| CONTROL | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | |
| | | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lens, Cataract | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | | | |
| Retina, Atrophy | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | | | |
| Sclera, Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | | 11 1.5 | | | |
| Sclera, Mineralization | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | | | |
| Harderian Gland | | | | | | | | | | | | | | | | | | | | | | | 50 | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | | | |
| Zymbal's Gland | | | | | | | | | | | | | | | | | | | | | | | + 1 | | | |

URINARY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x ... Lesion present

| Insufficient tissue

M .. Missing tissue

A - Autolysis precludes evaluation

BLANK Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

1) Minimal 3) Moderate
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1) Minimal 3) Moderate

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NERVOUS SYSTEM

RESPIRATORY SYSTEM

Larynx + X
 Foreign Body
 Inflammation, Suppurative 2
 Epiglottis, Metaplasia, Squamous 1

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

.. Lesion present
 Insufficient tissue

M .. Missing tissue

A - Autolysis precludes evaluation

BLANK Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

1) Minimal 3) Moderate
2) Mild 4) Marked

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ALIMENTARY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M., Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

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CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|---|---|--------|
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cardiomyopathy | | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 2 | + | 1 | 24 1.4 |
| Atrium, Thrombosis | | | | | | | | | | | | | | | 4 | 4 | 4 | 3.5 | | | |

ENDOCRINE SYSTEM

* .. Total animals with tissue examined microscopically: Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

.. Lesion present
 Insufficient tissue

M .. Missing tissue

A - Autolysis precludes evaluation

BLANK Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

1) Minimal 3) Moderate
2) Mild 4) Marked

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GENERAL BODY SYSTEM

.....

GENITAL SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x ... Lesion present

✗ .. Lesion present
| Insufficient tissue

M.. Missing tissue

A .. Autolysis precludes evaluation

BLANK Not examined microscopically

1-4 .. Lesion qualified as:

1-4.2. Emission qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

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HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Lymph Node
Ectasia | | + | | | | | | | | | | | | | | | | | | | 5 |
| Lymph Node, Bronchial
Hyperplasia, Lymphoid | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | 4 |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | 0 |
| Lymph Node, Mediastinal | + | + | + | + | M | M | + | M | + | M | M | M | + | M | M | M | + | + | + | M | 24 |

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+ .. Tissue examined microscopically

x .. Lesion present

.. Lesion present
 Insufficient tissue

M Missing tissue

A .. Autolysis precludes evaluation

BLANK - Not examined microscopically

1-4 Lesion qualified as:

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Lab: BNW

Thymus M + + + + + + + + + + + + + + + + M M + 43

INTEGUMENTARY SYSTEM

MUSCULOSKELETAL SYSTEM

Skeletal Muscle +

* Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade.

+ Tissue examined microscopically

- + .. Tissue examined
- x Lesion present

| Insufficient tissue

severely grade
M Missing tissue

A Autolysis precludes evaluation

BLANK Not examined microscopically

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NERVOUS SYSTEM

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Foreign Body | | | | | | | | | | | | | X | | | | | | | | 3 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Inflammation, Suppurative | | | | | | | | | | | | | 1 | | | | | | | | 5 1.6 |
| Glands, Respiratory Epithelium, | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 45 1.2 |

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+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M.. Missing tissue

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- .. Lesion qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 12/30/2008

Time Report Requested: 09:38:54

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

SPECIAL SENSES SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M.. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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1) Minimal 3) Moderate

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TDMS No. 99017 - 05

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

Diethylamine

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Lab: BNW

URINARY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

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TDMS No. 99017 - 05

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Lab: BNW

ALIMENTARY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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TDMS No. 99017 - 05

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Species/Strain: RATS/F 344/N

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Lab: BNW

Bile Duct, Hyperplasia Periportal, Inflammation, Chronic

Mesentery
Inflammation, Chronic
Necrosis
Fat, Hemorrhage

Pancreas
Acinus, Atrophy

Salivary Glands

Stomach, Forestomach
Inflammation, Suppurative
Ulcer

Stomach, Glandular
Erosion

Tongue
Epithelium, Hyperplasia

CARDIOVASCULAR SYSTEM

Blood Vessel

1

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M .. Missing tissue

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1) Minimal 3) Moderate

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TDMS No. 99017 - 05

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Diethylamine

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Date Report Requested: 12/30/2008

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First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

**males
(cont...)**

ENDOCRINE SYSTEM

* Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade.

† .. Tissue examined microscopically

x ... Lesion present

| .. Insufficient tissue

M Missing tissue

A - Autolysis precludes evaluation

BLANK - Not examined microscopically

1-4 Lesion qualified as:

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 12/30/2008

Time Report Requested: 09:38:54

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|------------------------------|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|---|---|---|---|
| | 7 | 7 | 7 | 4 | 7 | 7 | 5 | 7 | 7 | 6 | 7 | 6 | 6 | 7 | 6 | 6 | 7 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | 2 | 3 | 2 | 7 | 2 | 2 | 9 | 1 | 2 | 8 | 2 | 1 | 8 | 3 | 5 | 4 | 2 | 5 | 5 | 2 | 3 | 2 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 3 |
| | 9 | 0 | 9 | 5 | 9 | 9 | 6 | 2 | 4 | 1 | 9 | 2 | 7 | 0 | 2 | 6 | 9 | 2 | 3 | 9 | 0 | 6 | 9 | 0 | 9 | 0 | 9 | 0 | 9 | 0 |
| | <hr/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 62.5 PPM | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | males
(cont...) | | | | |

Follicular Cell, Hyperplasia

2

GENERAL BODY SYSTEM

Peritoneum

GENITAL SYSTEM

Epididymis

Preputial Gland
Hyperplasia

Prostate
Hyperplasia
Inflammation, Suppurative

Seminal Vesicle
Cyst
Inflammation, Suppurative

Testes
Mineralization
Germinal Epithelium, Atrophy
Interstitial Cell, Hyperplasia

**males
(cont...)**

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 12/30/2008

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First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

HEMATOPOIETIC SYSTEM

INTEGUMENTARY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as

.. Eczema qualified as:

2) Mild 4) Marked

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Diethylamine

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Date Report Requested: 12/30/2008

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First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

**males
(cont...)**

MUSCULOSKELETAL SYSTEM

Skeletal Muscle

NERVOUS SYSTEM

RESPIRATORY SYSTEM

* Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade.

† .. Tissue examined microscopically

x ... Lesion present

x .. lesion present
| .. Insufficient tissue

M Missing tissue

A - Autolysis precludes evaluation

BLANK - Not examined microscopically

1-4 Lesion qualified as

1) Minimal 3) Moderate

1) Minimal 3) Moderate
2) Mild 4) Marked

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

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.. Lesion present
 Insufficient tissue

M .. Missing tissue

A - Autolysis precludes evaluation

BLANK Not examined microscopically

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1-4: Lesion qualified as:

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TDMS No. 99017 - 05

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Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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Lab: BNW

ALIMENTARY SYSTEM

* = Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade.

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x .. Lesion present

| .. Insufficient tissue

M Missing tissue

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Lab: BNW

CARDIOVASCULAR SYSTEM

Blood Vessel

1

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

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Diethylamine

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Lab: BNW

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Atrophy | | | | | | | | | | | | | | | | | | | 4 | 1 4.0 |
| Hyperplasia | 2 | | | 4 | | 4 | | 4 | | | | | | 3 | 2 | 4 | 3 | | | 10 3.0 |
| Hyperplasia, Focal | | | | | 2 | | | | | | | | | | | | | | | 1 2.0 |
| Vacuolization Cytoplasmic | 2 | | | | | 1 | 2 | | 1 | | | | | | | 3 | 2 | | 3 | 16 2.2 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hyperplasia | 3 | 4 | | | 3 | 2 | | 2 | | 2 | | | | 2 | | 3 | 1 | 2 | | 25 2.7 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Parathyroid Gland | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | 48 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Atrophy | | | | | | | | | | | | | | | | | | | 4 | 1 4.0 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Pars Distalis, Hyperplasia | | | | | | | | | 4 | | | | | | | | | | | 9 3.2 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| C-cell, Hyperplasia | | | | | | | | | 2 | | | | | | | 1 | | 2 | | 7 1.6 |

* Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade.

† .. Tissue examined microscopically

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x .. lesion present
| .. Insufficient tissue

M Missing tissue

A .. Autolysis precludes evaluation

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1-4 Lesion qualified as:

1) Minimal 3) Moderate

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

Follicular Cell, Hyperplasia

12.0

GENERAL BODY SYSTEM

Peritoneum + 1

GENITAL SYSTEM

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+ .. Tissue examined microscopically

x ... Lesion present

.. Lesion present
 Insufficient tissue

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1) Minimal 3) Moderate

1) Minimal 3) Moderate
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TDMS No. 99017 - 05

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Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Diethylamine

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Date Report Requested: 12/30/2008

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First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|----|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia, Reticulum Cell | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Lymph Node | | | | | | | + | | | + | + | | | | | | | | | | | | 10 | |
| Lymph Node, Bronchial | M | M | M | M | M | M | M | M | M | M | M | + | M | M | M | M | M | M | M | M | M | M | 3 | |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | 1 | |
| Lymph Node, Mediastinal | M | + | + | M | + | M | + | + | M | + | M | + | M | + | + | + | + | M | M | M | M | + | + | 35 |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | 3 4.0 | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | 2 4.0 | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | 2 4.0 | |
| Thymus | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | M | M | + | + | 47 |

INTEGUMENTARY SYSTEM

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x .. Lesion present

.. Lesion present
 Insufficient tissue

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1-4 .. Lesion qualified as:

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Lab: BNW

MUSCULOSKELETAL SYSTEM

Skeletal Muscle

NERVOUS SYSTEM

RESPIRATORY SYSTEM

* Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ Tissue examined microscopically

x Lesion present

| Insufficient tissue

M Missing tissue

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Lab: BNW

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 | 4.0 |
| Anterior Chamber, Inflammation,
Suppurative | | | | | | | | | | | | | | | | | | | | | | 4 | | |
| Cornea, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Cornea, Mineralization | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Lens, Cataract | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | |
| Retina, Atrophy | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | |
| Sclera, Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | |
| Sclera, Mineralization | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |

URINARY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M., Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

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TDMS No. 99017 - 05

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x ... Lesion present

X .. Essien present
I .. Insufficient tissue

M Missing tissue

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ALIMENTARY SYSTEM

* Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade.

† .. Tissue examined microscopically

- ✗ Lesion present

.. Lesion present
 Insufficient tissue

M Missing tissue

A Autolysis precludes evaluation

BLANK Not examined microscopically

1-4 Lesion qualified as:

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Lab: BNW

GENERAL BODY SYSTEM

Peritoneum +
Mesothelium, Tunica Vaginalis,
Hyperplasia 2

* = Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

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M Missing tissue

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Date Report Requested: 12/30/2008

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First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------------|-------|-------|
| | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 2 | 7 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | 3 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 1 | 2 | 2 | 2 | 3 | 3 | 2 | 9 | 3 | 8 | 3 | 6 | 2 | 2 | 2 | 3 | 1 | | | | | |
| | 0 | 1 | 9 | 9 | 9 | 9 | 0 | 0 | 8 | 9 | 9 | 9 | 0 | 0 | 9 | 1 | 0 | 4 | 0 | 9 | 9 | 9 | 9 | 9 | 0 | 6 | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS MALE | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 125 PPM | | | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | males
(cont...) | | |

GENITAL SYSTEM

HEMATOPOIETIC SYSTEM

* .. Total animals with tissue examined microscopically: Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

.. Lesion present
 Insufficient tissue

M .. Missing tissue

A - Autolysis precludes evaluation

BLANK Not examined microscopically

1-4 .. Lesion qualified as:

+ .. Lesion qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 12/30/2008

Time Report Requested: 09:38:54

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

INTEGUMENTARY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

.. Lesion present
 Insufficient tissue

M .. Missing tissue

A - Autolysis precludes evaluation

BLANK Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 12/30/2008

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First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

Respiratory Epithelium, Metaplasia Squamous

* = Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 Lesion qualified as:

1-4: Lesion qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 12/30/2008

Time Report Requested: 09:38:54

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

| FISCHER 344 RATS MALE
125 PPM | ANIMAL ID | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) | |
|--|-----------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|--|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 2 | 7 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | | |
| | | 3 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 1 | 2 | 2 | 2 | 3 | 3 | 2 | 9 | 3 | 8 | 3 | 6 | 7 | 2 | 2 | 3 | 1 | |
| | | 0 | 1 | 9 | 9 | 9 | 9 | 0 | 0 | 8 | 9 | 9 | 9 | 0 | 0 | 9 | 1 | 0 | 4 | 0 | 9 | 9 | 9 | 9 | 0 | 6 | |
| Olfactory Epithelium, Atrophy | 2 | 2 | 3 | 1 | 1 | 2 | 3 | 2 | 3 | 3 | 3 | 3 | 2 | 2 | 1 | 2 | 2 | 3 | 2 | 3 | 3 | 1 | 2 | 2 | 4 | | |
| Olfactory Epithelium, Degeneration,
Hyaline | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Olfactory Epithelium, Hyperplasia, Basal
Cell | 3 | 2 | 3 | 2 | 1 | 2 | 4 | 3 | 2 | 3 | 3 | 3 | 2 | 1 | 2 | 1 | 2 | 3 | 2 | 3 | 3 | 1 | 2 | 2 | 3 | | |
| Olfactory Epithelium, Metaplasia,
Squamous | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | |
| Olfactory Epithelium, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Olfactory Epithelium, Respiratory
Metaplasia | | 1 | | 1 | 3 | 2 | 2 | | 2 | 2 | 2 | 1 | | 1 | 2 | 2 | | 2 | 1 | | 2 | | 1 | 3 | | | |
| Olfactory Epithelium, Vacuolization
Cytoplasmic | | | | | | | | | | | | | | | | | 4 | | | | | | | | | | |
| Respiratory Epithelium, Accumulation,
Hyaline Droplet | | 3 | | | | | | | 1 | 1 | | | | | | 1 | | | 1 | 1 | | | | | | | |
| Respiratory Epithelium, Hyperplasia | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 3 | | 3 | 3 | 3 | 3 | 1 | 2 | 3 | 3 | 3 | 1 | 3 | 1 | 1 | 3 | | 3 | | |
| Respiratory Epithelium, Inflammation,
Chronic | | | | | | | | | | | | | | | | | | | | | | | | 2 | | | |
| Respiratory Epithelium, Metaplasia,
Squamous | | 3 | | | | 3 | | | | 3 | 3 | 3 | 3 | 1 | 1 | | | 3 | 3 | | | | | | 3 | 3 | |
| Respiratory Epithelium, Necrosis | | | | | | | | | | | | | | | | 1 | 2 | | 4 | 1 | 1 | | | | | | |
| Respiratory Epithelium, Ulcer | 4 | | | | 3 | | | | 1 | 4 | 4 | | | | | | | 4 | 1 | | | | | 3 | 4 | | |
| Respiratory Epithelium, Vacuolization
Cytoplasmic | | | | | | | | | | | | | | | | | 4 | | | | | | | | | | |
| Turbinate, Hyperostosis | | | | | | | | 1 | | | 1 | | 4 | 3 | | | | 3 | | | | | | 1 | 4 | | |
| Turbinate, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pleura
Inflammation, Chronic | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Trachea | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 12/30/2008

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First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

SPECIAL SENSES SYSTEM

URINARY SYSTEM

Kidney +
 Nephropathy, Chronic 4 1 1 2 2 1 3 + 1 1 + 1 1 1 1 1 1 2 3 1 + 1 1 2 + 3
 Cortex, Infarct 4 3
 Cortex, Renal Tubule, Hyperplasia.

* = Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 Lesion qualified as:

14. Eosinophils qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Diethylamine

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Lab: BNW

Atypical

Pelvis, Inflammation, Suppurative

Pelvis, Transitional Epithelium, Hyperplasia

Urinary Bladder

Transitional Epithelium, Hyperplasia

**males
(cont...)**

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

† .. Total animals with tissue examined

x Lesion present

x .. Lesion present
| Insufficient tissue

M Missing tissue

A - Autolysis precludes evaluation

BLANK Not examined microscopically

1-4 Lesion qualified as

4 .. Lesion qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

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Diethylamine

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First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

ALIMENTARY SYSTEM

* Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

† .. Tissue examined microscopically

x ... Lesion present

X .. Lesion present
I .. Insufficient tissue

M Missing tissue

A - Autolysis precludes evaluation

BLANK - Not examined microscopically

1-4 Lesion qualified as:

4 .. Lesion qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 12/30/2008

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First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

CARDIOVASCULAR SYSTEM

ENDOCRINE SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 12/30/2008

Time Report Requested: 09:38:54

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

GENERAL BODY SYSTEM

Peritoneum
Mesothelium, Tunica Vaginalis,
Hyperplasia

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M., Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 12/30/2008

Time Report Requested: 09:38:54

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

GENITAL SYSTEM

HEMATOPOIETIC SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x ... Lesion present

| Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

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1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 12/30/2008

Time Report Requested: 09:38:54

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|----|-----|-----|
| | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 5 | 5 | 7 | 7 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | 2 | 3 | 3 | 4 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 2 | 6 | 0 | 0 | 2 | 5 | 3 | 2 | 3 | 3 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | 9 | 0 | 0 | 6 | 9 | 0 | 9 | 9 | 4 | 9 | 9 | 7 | 2 | 2 | 3 | 8 | 6 | 0 | 9 | 0 | 0 | 9 | 0 | 9 | 0 | 9 | 9 | 9 | 9 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 125 PPM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | |
| | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 0 | * TOTALS | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 10 | |
| Deep Cervical, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Deep Cervical, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Lymph Node, Bronchial | M | M | + | M | M | M | M | M | M | M | M | M | M | M | M | M | + | M | + | M | M | + | M | M | M | M | 5 | | | |
| Ectasia | | | | | | | | | | | | | | | | | | 3 | | | | | | | | | | 1 | 3.0 | |
| Pigmentation | | | | | | | | | | | | | | | | | | 2 | | | | | | | | | | 1 | 2.0 | |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | + | M | M | M | M | M | M | M | M | M | 1 | | | |
| Ectasia | | | | | | | | | | | | | | | | | 4 | | | | | | | | | | | 1 | 4.0 | |
| Lymph Node, Mediastinal | M | M | M | + | M | + | + | + | M | M | + | + | M | M | M | M | + | + | + | M | + | M | M | + | M | M | + | 29 | | |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | 4 | | | | | | | | | | 1 | 3.0 | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | 2 | | | | | | | | | | 1 | 2.0 | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | 3 | | | | | | | | | 1 | 3.0 | |
| Necrosis | | | | | | | | | | | | | | | | | | 4 | | | | | | | | | | 3 | 3.7 | |
| Thymus | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | M | + | + | M | + | + | 45 | |

INTEGUMENTARY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 12/30/2008

Time Report Requested: 09:38:54

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

MUSCULOSKELETAL SYSTEM

NERVOUS SYSTEM

RESPIRATORY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x ... Lesion present

| Insufficient tissue

M .. Missing tissue

M .. Missing tissue
A .. Autolysis precludes evaluation

BLANK Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

1) Minimal 3) Moderate
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+ .. Tissue examined microscopically

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| .. Insufficient tissue

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1-4 .. Lesion qualified as:

.. Lesion qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 12/30/2008

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First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

| FISCHER 344 RATS MALE
125 PPM | ANIMAL ID | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|---|-----------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----------|--------|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 5 | 5 | 7 | 7 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | | |
| | | 2 | 3 | 3 | 4 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 2 | 6 | 0 | 0 | 2 | 5 | 3 | 2 | 3 | 3 | 2 | 3 | 2 | | |
| | | 9 | 0 | 0 | 6 | 9 | 0 | 9 | 9 | 4 | 9 | 9 | 7 | 2 | 2 | 3 | 8 | 6 | 0 | 9 | 0 | 0 | 9 | 0 | 9 | | |
| Olfactory Epithelium, Atrophy | 3 | 4 | 3 | 2 | 3 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 3 | 1 | 2 | 50 2.3 | |
| Olfactory Epithelium, Degeneration, Hyaline | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Olfactory Epithelium, Hyperplasia, Basal Cell | 3 | 4 | 3 | 2 | 3 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 1 | 1 | 3 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 4 | 2 | 3 | 2 | 50 2.4 |
| Olfactory Epithelium, Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Olfactory Epithelium, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 | |
| Olfactory Epithelium, Respiratory Metaplasia | 2 | | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 1 | 2 | | | | | 2 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 37 1.6 |
| Olfactory Epithelium, Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | |
| Respiratory Epithelium, Accumulation, Hyaline Droplet | | | | | | | | | | | | | | | | 2 | 1 | | | | | | | | | 11 1.5 | |
| Respiratory Epithelium, Hyperplasia | 2 | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 1 | 2 | 2 | 1 | 47 1.9 | |
| Respiratory Epithelium, Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Respiratory Epithelium, Metaplasia, Squamous | | | | | | 2 | | 2 | | | | 1 | 1 | 1 | 2 | 3 | 3 | 1 | 2 | 2 | 1 | 1 | 1 | 2 | | 26 2.1 | |
| Respiratory Epithelium, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 4 1.3 | |
| Respiratory Epithelium, Ulcer | 4 | 4 | | 3 | | | | | | 4 | 3 | 3 | 4 | 2 | 4 | 4 | 4 | 4 | 4 | | | | | | | 22 3.3 | |
| Respiratory Epithelium, Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | 4 | 4 | | | | | | | | | 3 4.0 | |
| Turbinate, Hyperostosis | 3 | | | 2 | | | | | 4 | 4 | | 3 | 2 | 4 | 4 | 4 | 4 | 3 | 4 | 2 | 1 | 2 | | | | 3 2.3 | |
| Turbinate, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 19 2.9 | |
| Pleura | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Inflammation, Chronic | 2 | | | | | | | 1 | | | | | | | | | | | | | | | | | | 9 1.6 | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

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1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 12/30/2008

Time Report Requested: 09:38:54

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|-------|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 2 | 3.0 |
| Anterior Chamber, Inflammation,
Suppurative | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Cornea, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | |
| Cornea, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | 5 | 2.4 | |
| Cornea, Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | 2 | 2.0 | |
| Cornea, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | |
| Cornea, Mineralization | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | |
| Cornea, Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | 3 | 1.3 | |
| Lens, Cataract | 4 | | | | | | | | | | | | | | | | | | | | | 5 | 2.6 | |
| Retina, Atrophy | 3 | | | | | | | | | | | | | | | | | | | | | 3 | 3.3 | |
| Retina, Dysplasia | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Sclera, Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | 2 | 2 | 6 1.3 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 | 1.0 |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | 2 | 2 1.5 | |
| Zymbal's Gland | + | | | | | | | | | | | | | | | | | | | | | 2 | | |

URINARY SYSTEM

* ... Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade.

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

.. Eczema qualified as:

2) Mild 4) Marked

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 12/30/2008

Time Report Requested: 09:38:54

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

Atypical

Pelvis, Inflammation, Suppurative

Pelvis, Transitional Epithelium, Hyperplasia

| | | | | |
|---|---|---|---|-------|
| 4 | 2 | 3 | 2 | 1 2.0 |
| | | | | 4 2.8 |

Urinary Bladder

Transitional Epithelium, Hyperplasia

2 2.5

*** END OF MAIL E DATA ***

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 12/30/2008

Time Report Requested: 09:38:54

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--------------------------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------------------------|---|
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 5 | 7 | 5 | |
| | 3 | 3 | 3 | 3 | 0 | 3 | 3 | 3 | 3 | 0 | 1 | 3 | 3 | 7 | 3 | 3 | 3 | 3 | 0 | 6 | 1 | 3 | 3 | 3 | 9 | | | | | |
| | 1 | 1 | 2 | 6 | 2 | 1 | 1 | 2 | 2 | 2 | 6 | 1 | 1 | 4 | 2 | 2 | 1 | 0 | 4 | 5 | 6 | 1 | 6 | 2 | 8 | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| CONTROL | ANIMAL ID | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | | | females
(cont...) | |

ALIMENTARY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 12/30/2008

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Lab: BNW

GENERAL BODY SYSTEM

Tissue NOS

GENITAL SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as

1) Minimal 3) Moderate

2) Mild 4) Marked

NERVOUS SYSTEM

RESPIRATORY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M., Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Diethylamine

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Date Report Requested: 12/30/2008

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Lab: BNW

ALIMENTARY SYSTEM

* = Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade.

+ .. Tissue examined microscopically

x .. Lesion present

.. Lesion present
 Insufficient tissue

M Missing tissue

A .. Autolysis precludes evaluation

BLANK - Not examined microscopically

1-4 Lesion qualified as:

+ .. Lesion qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 99017 - 05

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Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Diethylamine

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Lab: BNW

Mesentery + + + + + + 16
Necrosis 3 3 2 3 3 15 2.9

CARDIOVASCULAR SYSTEM

ENDOCRINE SYSTEM

* Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

† .. Tissue examined microscopically

x .. Lesion present

X .. Eosin present
I .. Insufficient tissue

M Missing tissue

A .. Autolysis precludes evaluation

BLANK - Not examined microscopically

1-4 Lesion qualified as:

-.. Lesion qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Diethylamine

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First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

GENERAL BODY SYSTEM

Tissue NOS

-

1

GENITAL SYSTEM

* .. Total animals with tissue examined microscopically: Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 12/30/2008

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First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

INTEGUMENTARY SYSTEM

MUSCULOSKELETAL SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M Missing tissue

A.. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 Lesion qualified as:

.. Eczema qualified as:

2) Mild 4) Marked

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 12/30/2008

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First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

NERVOUS SYSTEM

RESPIRATORY SYSTEM

* Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade.

† .. Tissue examined microscopically

x ... Lesion present

| .. Insufficient tissue

M Missing tissue

A - Autolysis precludes evaluation

BLANK - Not examined microscopically

1-4 Lesion qualified as:

1-4: Lesion qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

SPECIAL SENSES SYSTEM

* ... Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x ... Lesion present

| Insufficient tissue

M Missing tissue

A .. Autolysis precludes evaluation

BLANK Not examined microscopically

1-4 Lesion qualified as:

.. Lesion qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

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Diethylamine

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Date Report Requested: 12/30/2008

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Lab: BNW

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 26 | 1.7 |
| Nephropathy, Chronic | | | | | 1 | 1 | 3 | | 3 | 3 | 3 | 1 | | 1 | 2 | 1 | 3 | 1 | 3 | 2 | 2 | | |
| Papilla, Mineralization | | | | | | 1 | | 2 | | 1 | | | | | | | | 2 | 1 | 1 | 12 | 1.2 | |
| Pelvis, Transitional Epithelium,
Mineralization | | | | | | | | | | | | | | | | | | | | | 2 | 1.0 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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| .. Insufficient tissue

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BLANK .. Not examined microscopically

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Species/Strain: RATS/F 344/N

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Lab: BNW

ALIMENTARY SYSTEM

* .. Total animals with tissue examined microscopically: Total animals with lesion and mean severity grade

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x .. Lesion present

.. Lesion present
 Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK - Not examined microscopically

1-4 .. Lesion qualified as:

-.. Lesion qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

RESPIRATORY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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2) Mild 4) Marked

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Test Type: CHRONIC

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Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Diethylamine

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1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 12/30/2008

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First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

CARDIOVASCULAR SYSTEM

ENDOCRINE SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x ... Lesion present

| Insufficient tissue

M .. Missing tissue

A - Autolysis precludes evaluation

BLANK Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 12/30/2008

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First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

* = Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M .. Missing tissue

A.. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 12/30/2008

Time Report Requested: 09:38:54

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

HEMATOPOIETIC SYSTEM

* Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade.

† .. Tissue examined microscopically

x ... Lesion present

x .. lesion present
| .. Insufficient tissue

M Missing tissue

A - Autolysis precludes evaluation

BLANK - Not examined microscopically

1-4 Lesion qualified as:

1-4 ... Lesion qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Diethylamine

CAS Number: 109-89-7

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Lab: BNW

RESPIRATORY SYSTEM

* ... Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 Lesion qualified as:

+ .. Lesion qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 99017 - 05

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Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Diethylamine

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First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 2 | 2.5 |
| Cornea, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | 3 | 2 | 4.0 |
| Lens, Cataract | | | | | | | | | | | | | | | | | | | | | | 4 | 2 | 4.0 |
| Retina, Atrophy | | | | | | | | | | | | | | | | | | | | | | 4 | 2 | 4.0 |
| Sclera, Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | 4 | 2 | 2.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Diethylamine

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Lab: BNW

ALIMENTARY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

.. Lesion present
 Insufficient tissue

M., Missing tissue

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1-4 .. Lesion qualified as:

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1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

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Diethylamine

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Lab: BNW

| | DAY ON TEST | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|
| FISCHER 344 RATS FEMALE
62.5 PPM | ANIMAL ID | | | | | | | | | | | | | | | | | | | | females
(cont...) |
| Hyperplasia | 2 | 3 | 4 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | |
| Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | |
| Vacuolization Cytoplasmic | 4 | | | 4 | | | | | 2 | 1 | | | | | | | | | | 4 | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cyst | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Hyperplasia | 4 | | | 3 | | | 3 | | | 4 | | | | | | | | | | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| C-cell, Hyperplasia | 1 | 1 | 1 | | | | | | | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

* .. Total animals with tissue examined microscopically: Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

.. Lesion present
 Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Diethylamine

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Lab: BNW

HEMATOPOIETIC SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M., Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 12/30/2008

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First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

Thymus + M M + + + + + + M + + + M + + + + M + + + + M M

INTEGUMENTARY SYSTEM

MUSCULOSKELETAL SYSTEM

NERVOUS SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Peripheral Nerve

Spinal Cord

RESPIRATORY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M., Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 12/30/2008

Time Report Requested: 09:38:54

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

SPECIAL SENSES SYSTEM

Eve

* = Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade.

† .. Tissue examined microscopically

x .. Lesion present

X .. Eosin present
I .. Insufficient tissue

M Missing tissue

A - Autolysis precludes evaluation

BLANK - Not examined microscopically

1-4 Lesion qualified as

.. Lesion qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

Bilateral, Lens, Cataract
Cornea, Inflammation, Suppurative
Cornea, Mineralization
Cornea, Vacuolization Cytoplasmic
Lens, Cataract
Retina, Atrophy
Sclera, Metaplasia, Osseous

A diagram illustrating a path from node 4 at the top left to node 2 at the bottom right. The path follows a sequence of nodes labeled with their coordinates:

- (4, 4)
- (4, 3)
- (3, 4)
- (3, 3)
- (3, 2)
- (2, 2)

females (cont...)

Harderian Gland
Inflammation, Chronic

URINARY SYSTEM

Kidney
Nephropathy, Chronic
Cortex, Infarct
Cortex, Renal Tubule, Necrosis
Papilla, Mineralization
Pelvis, Transitional Epithelium, Hyperplasia

$$\begin{array}{ccccccccccccccccccccccccc}
 + & + \\
 2 & & & & 3 & 1 & 3 & 4 & & 3 & 2 & 2 & & 3 & 2 & & 2 & & 1 & 2 & & 2 & & 1 & 1 & 2 & 3
 \end{array}$$

Urinary Bladder
Hemorrhage
Transitional Epithelium, Hyperplasia

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 99017 - 05

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Species/Strain: RATS/F 344/N

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ALIMENTARY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M., Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 99017 - 05

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Species/Strain: RATS/F 344/N

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Lab: BNW

CARDIOVASCULAR SYSTEM

ENDOCRINE SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

x .. Eosin present
| .. Insufficient tissue

M Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 Lesion qualified as

+ .. Lesion qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

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Species/Strain: RATS/F 344/N

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Diethylamine

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Date Report Requested: 12/30/2008

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Lab: BNW

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x ... Lesion present

| Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

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Diethylamine

CAS Number: 109-89-7

Date Report Requested: 12/30/2008

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First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

HEMATOPOIETIC SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 12/30/2008

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First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

INTEGUMENTARY SYSTEM

MUSCULOSKELETAL SYSTEM

NERVOUS SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Peripheral Nerve

+ 1

Spinal Cord

+ 1

RESPIRATORY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M., Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

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Diethylamine

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First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

SPECIAL SENSES SYSTEM

Eve

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M.. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

.. Eczema qualified as:

2) Mild 4) Marked

URINARY SYSTEM

* ... Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade.

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

.. Eczema qualified as:

2) Mild 4) Marked

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

Diethylamine

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

ALIMENTARY SYSTEM

* = Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

.. Lesion present
 Insufficient tissue

M Missing tissue

A - Autolysis precludes evaluation

BLANK Not examined microscopically

1-4 Lesion qualified as:

1) Minimal 3) Moderate

1) Minimal 3) Moderate
2) Mild 4) Marked

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

X .. Lesser present
I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK - Not examined microscopically

1-4 .. Lesion qualified as:

.. Lesion qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 12/30/2008

Time Report Requested: 09:38:54

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--------------------------------|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------------------------------|---|---|---|
| | 4 | 7 | 6 | 6 | 7 | 7 | 7 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | 4 | 3 | 2 | 6 | 3 | 3 | 3 | 7 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 1 | 3 | 3 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | 9 | 2 | 7 | 6 | 1 | 1 | 2 | 5 | 8 | 1 | 2 | 0 | 2 | 1 | 1 | 2 | 2 | 9 | 8 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 125 PPM | | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | females
(cont...) | | | |
| Thymus | | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | | |

INTEGUMENTARY SYSTEM

MUSCULOSKELETAL SYSTEM

NERVOUS SYSTEM

RESPIRATORY SYSTEM

Larynx +

* = Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M .. Missing tissue

M. Missing tissue

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

.. Eczema qualified as:

2) Mild 4) Marked

Foreign Body
Inflammation, Suppurative

x
1

Lung
Hemorrhage
Inflammation, Chronic
Alveolar Epithelium, Hyperplasia
Alveolar Epithelium, Metaplasia,
Squamous
Alveolus, Infiltration Cellular, Histiocyte
Alveolus, Proteinosis
Interstitial, Fibrosis

females (cont...)

Nose
Foreign Body
Inflammation, Suppurative
Glands, Respiratory Epithelium,
 Accumulation, Hyaline Droplet
Glands, Respiratory Epithelium,
 Hyperplasia
Goblet Cell, Hyperplasia
Olfactory Epithelium, Accumulation,
 Hyaline Droplet
Olfactory Epithelium, Atrophy
Olfactory Epithelium, Hyperplasia
Olfactory Epithelium, Hyperplasia, Basal
 Cell
Olfactory Epithelium, Mineralization
Olfactory Epithelium, Respiratory
 Metaplasia
Olfactory Epithelium, Vacuolization

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 12/30/2008

Time Report Requested: 09:38:54

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------------------------|-------|-------|-------|
| | 4 | 7 | 6 | 6 | 7 | 7 | 7 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | 4 | 3 | 2 | 6 | 3 | 3 | 3 | 7 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 1 | 3 | 3 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 9 | 2 | 7 | 6 | 1 | 1 | 2 | 5 | 8 | 1 | 2 | 0 | 2 | 1 | 1 | 2 | 2 | 9 | 8 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 125 PPM | | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | females
(cont...) | | | |

URINARY SYSTEM

* ... Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M.. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Diethylamine

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Date Report Requested: 12/30/2008

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Lab: BNW

ALIMENTARY SYSTEM

* .. Total animals with tissue examined microscopically: Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

.. Lesion present
 Insufficient tissue

M .. Missing tissue

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BLANK Not examined microscopically

1-4 .. Lesion qualified as:

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1) Minimal 3) Moderate
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TDMS No. 99017 - 05

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Route: RESPIRATORY EXPOSURE WHOLE BODY

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Lab: BNW

Tongue
Epithelium, Hyperplasia 1 1,2,0

CARDIOVASCULAR SYSTEM

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | 3 | 1 3.0 |
| Hyperplasia | | | 2 | 2 | | | | | | | | | | | | | | | | 4 | 18 2.8 |
| Vacuolization Cytoplasmic | | | 1 | 1 | | | | | | | | | | | | | | | | 3 | 11 1.6 |

* Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

† .. Tissue examined microscopically

x .. Lesion present

X .. Eosin present
I .. Insufficient tissue

M Missing tissue

A .. Autolysis precludes evaluation

BLANK - Not examined microscopically

1-4 Lesion qualified as:

1) Minimal 3) Moderate

1) Minimal 3) Moderate
2) Mild 4) Marked

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

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1-4 .. Lesion qualified as:

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Test Type: CHRONIC

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Lab: BNW

HEMATOPOIETIC SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x ... Lesion present

.. Lesion present
 Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK Not examined microscopically

1-4 .. Lesion qualified as:

.. Lesion qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Diethylamine

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Lab: BNW

INTEGUMENTARY SYSTEM

MUSCULOSKELETAL SYSTEM

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Compression | 4 | | | 3 | 4 | | | | | | | | | | | | | | | 9 3.7 |
| Hemorrhage | | | | | | | | | | | | | | | | | | 1 | 1 | 5 1.8 |

RESPIRATORY SYSTEM

* = Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 99017 - 05

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Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Diethylamine

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* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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x .. Lesion present

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1) Minimal 3) Moderate

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TDMS No. 99017 - 05

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Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

Diethylamine

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First Dose M/F: 08/25/03 / 08/25/03

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SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 | 4.0 |
| Anterior Chamber, Inflammation,
Suppurative | | | | | | | | | | | | | | | | | | | | | | | | |
| Cornea, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | |
| Lens, Cataract | | | | | | | | | | | | | | | | | | | | | | | | |
| Retina, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | |
| Sclera, Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

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M.. Missing tissue

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BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 99017 - 05

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Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

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URINARY SYSTEM

*** END OF REPORT ***

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M .. Missing tissue

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